

Figure 1a: Single-Beam Elevation Difference at Survey Line Crossings, 2007
Cross Flow Transect Elevation vs. Longitudinal Transect Elevation

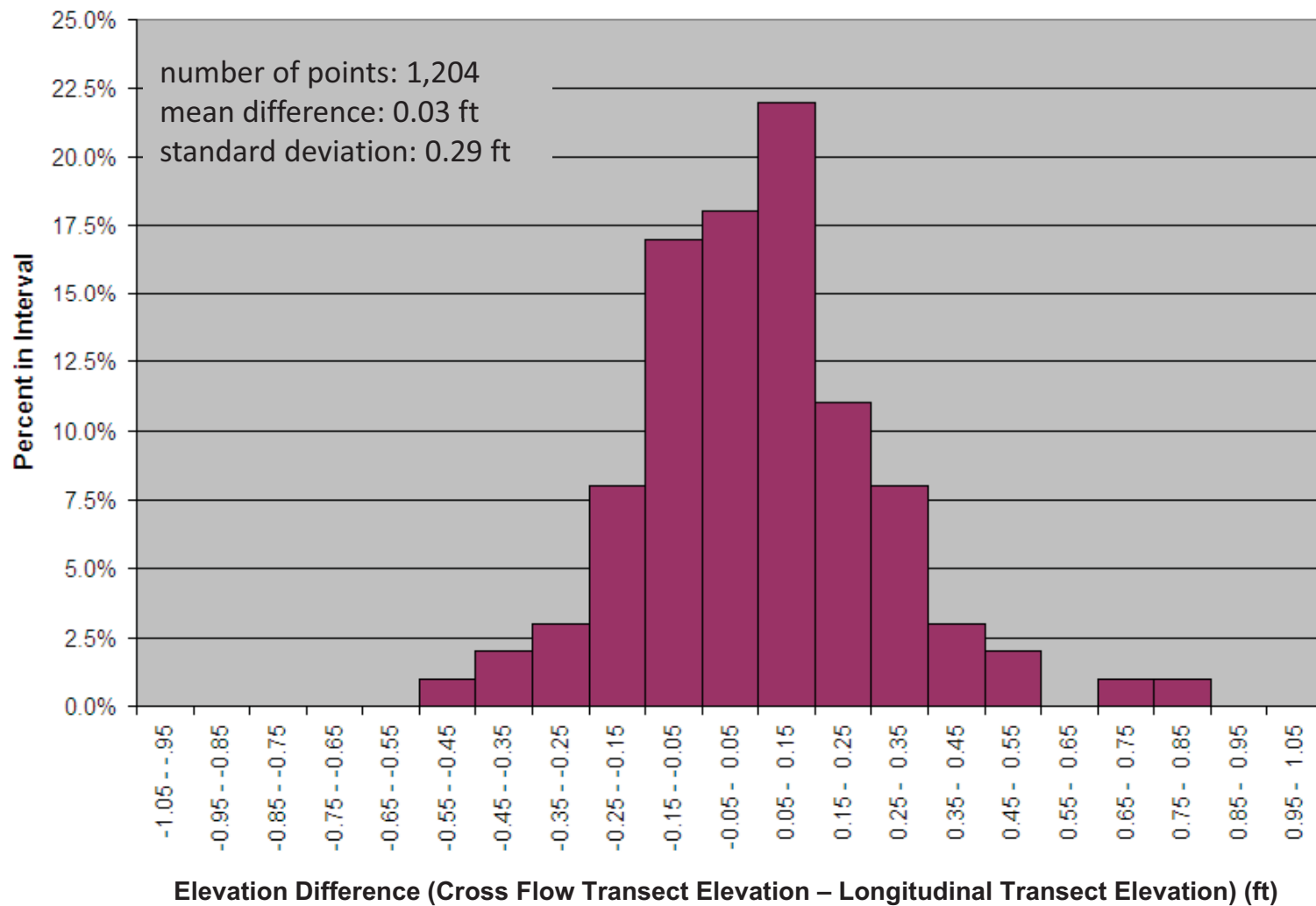


Figure 1b. Histogram of 2007 Multibeam - 2007 Single Beam Cross Transects

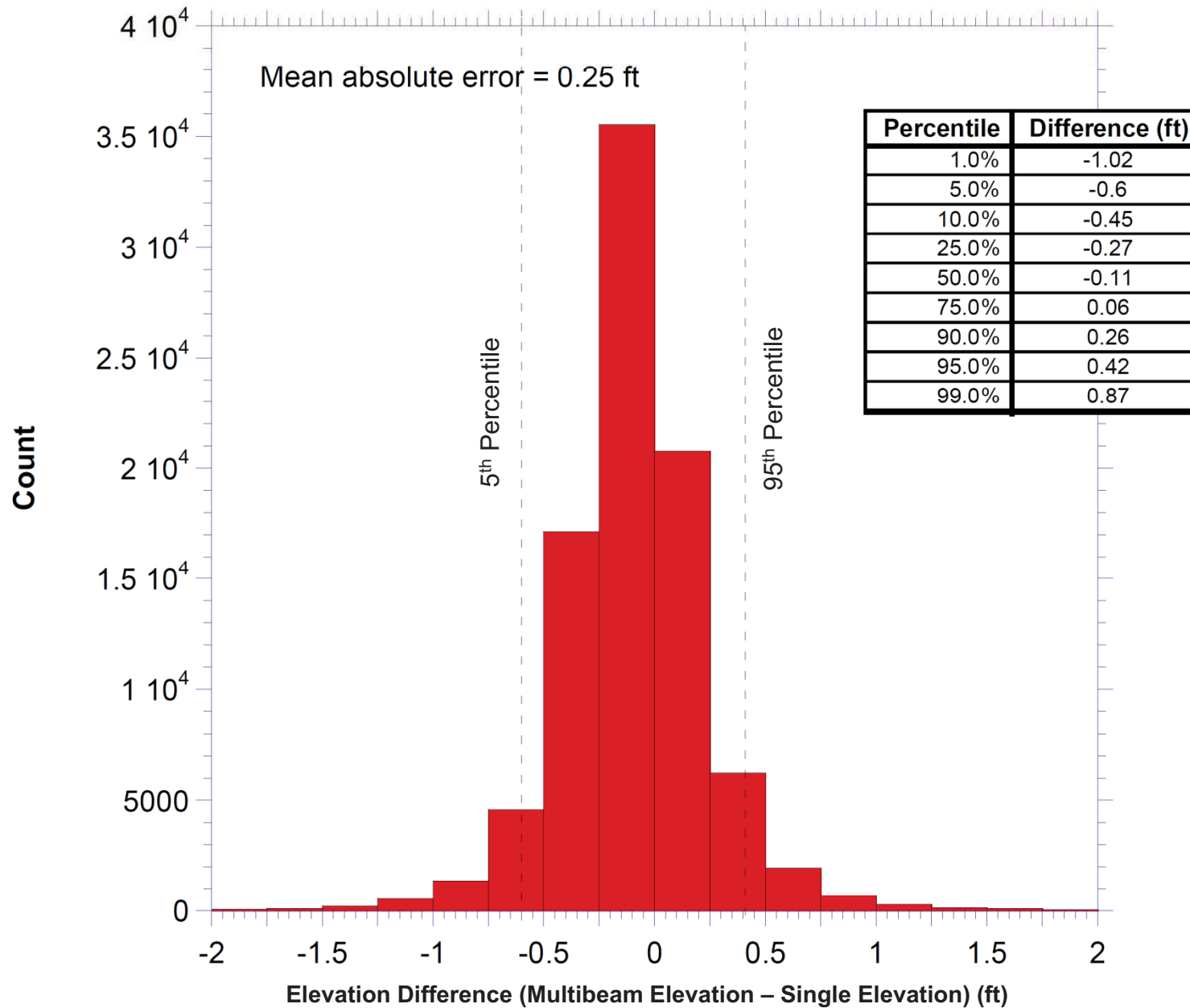
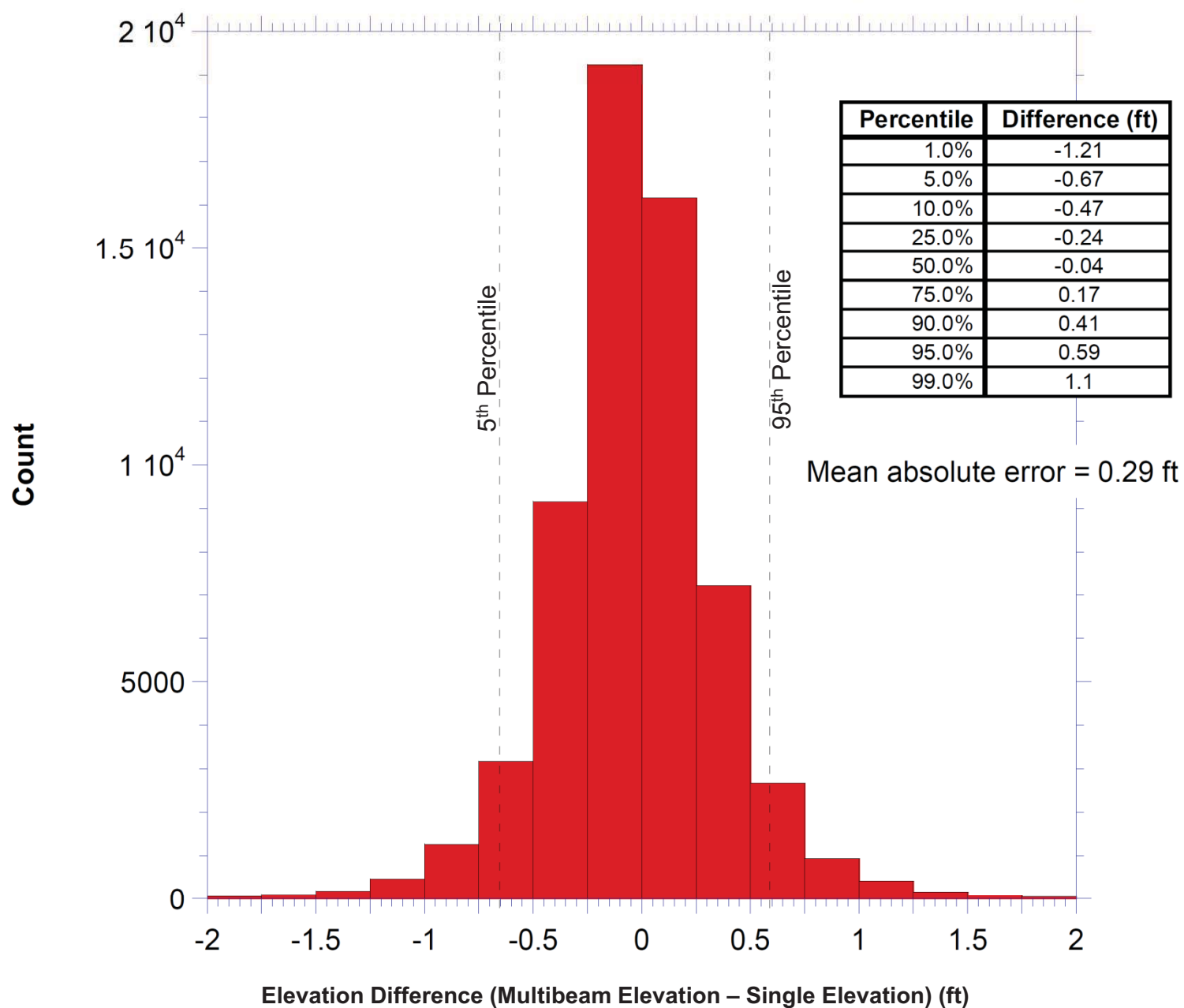
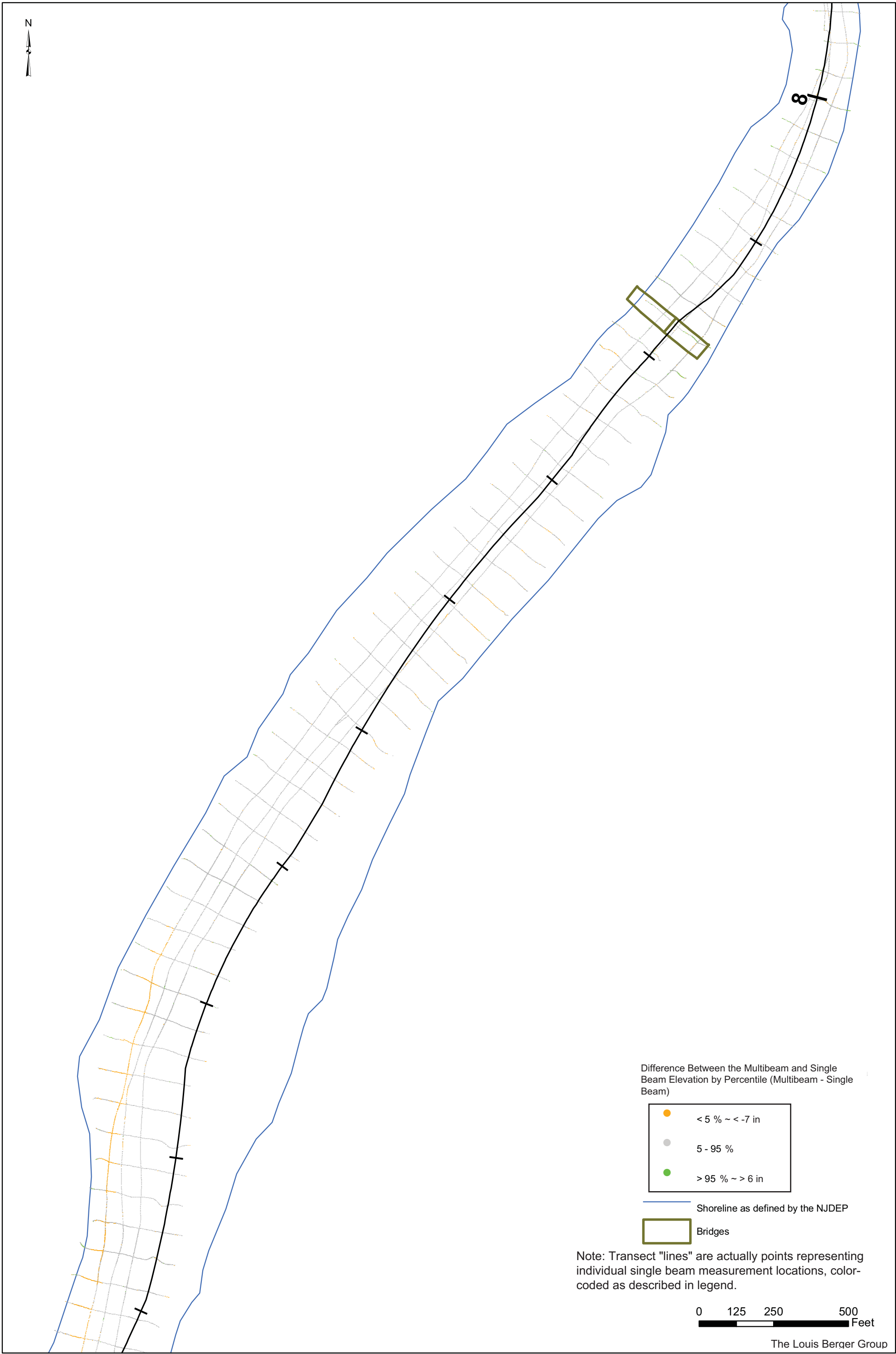


Figure 1c. Histogram of 2007 Multibeam - 2007 Single Beam Longitudinal Transects



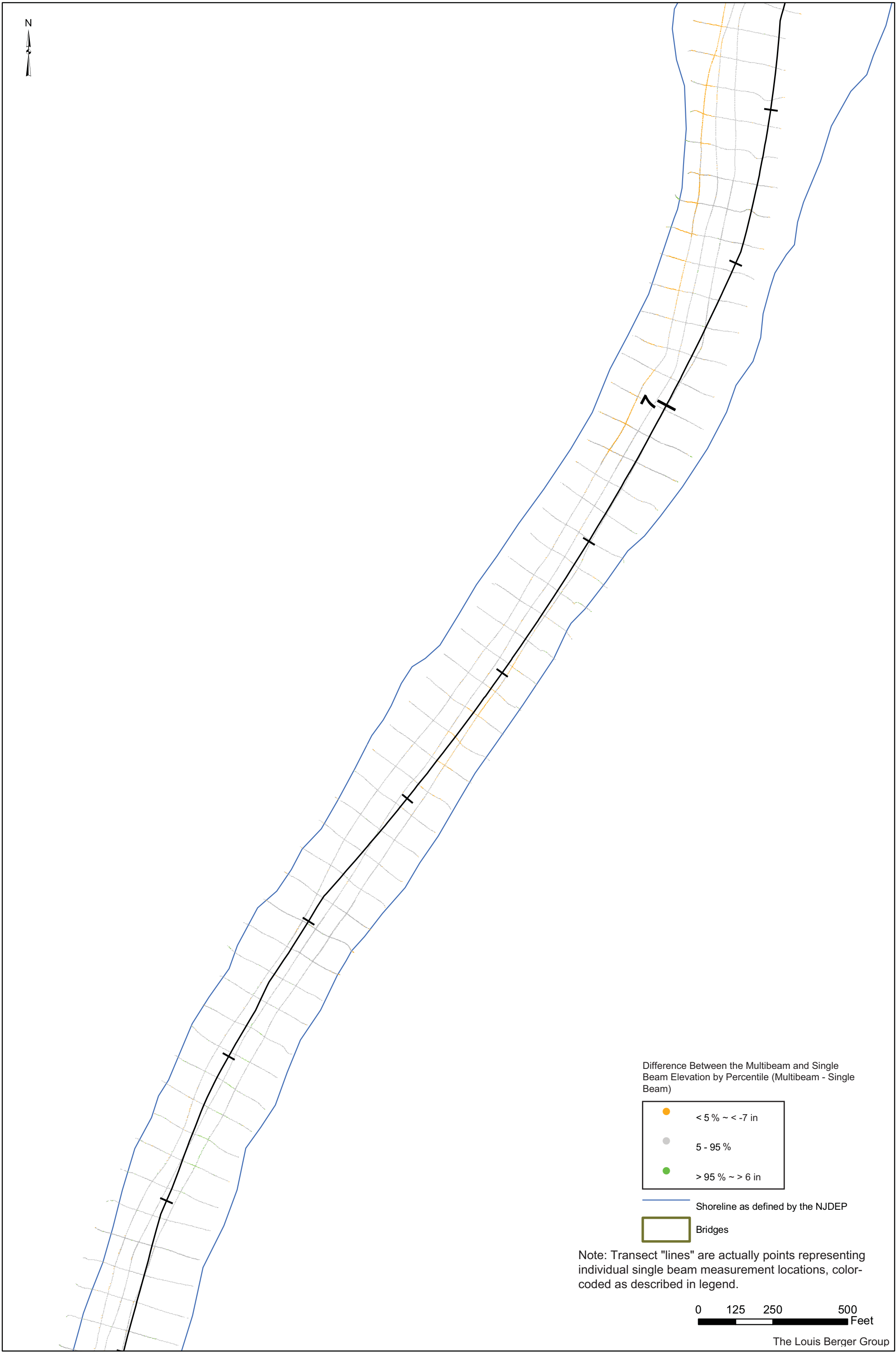


Comparison of the MultiBeam and Single Beam Surveys

Lower Passaic River Restoration Project

Figure 2b

March 2010

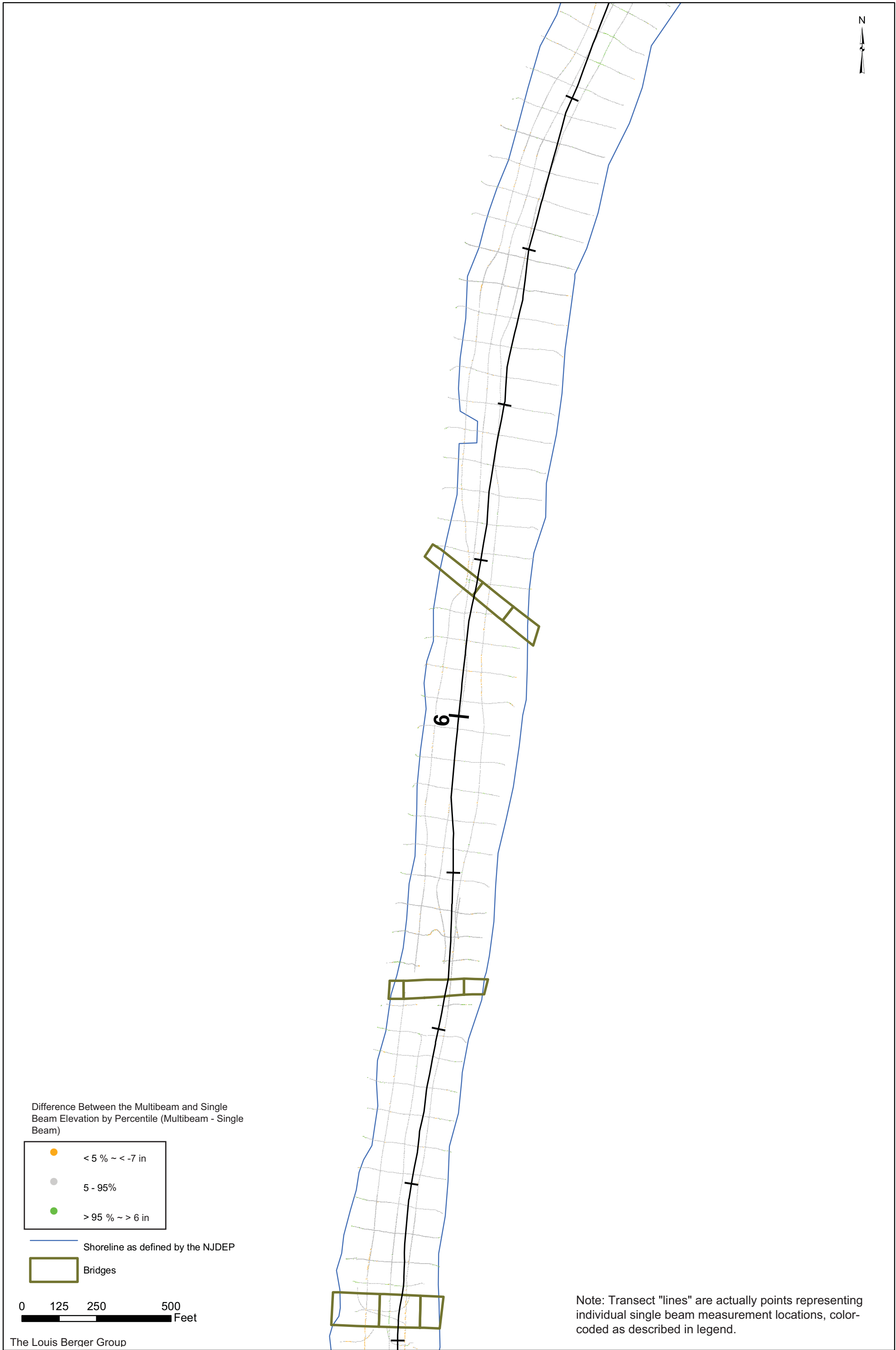


Comparison of the MultiBeam and Single Beam Surveys

Lower Passaic River Restoration Project

Figure 2c

March 2010

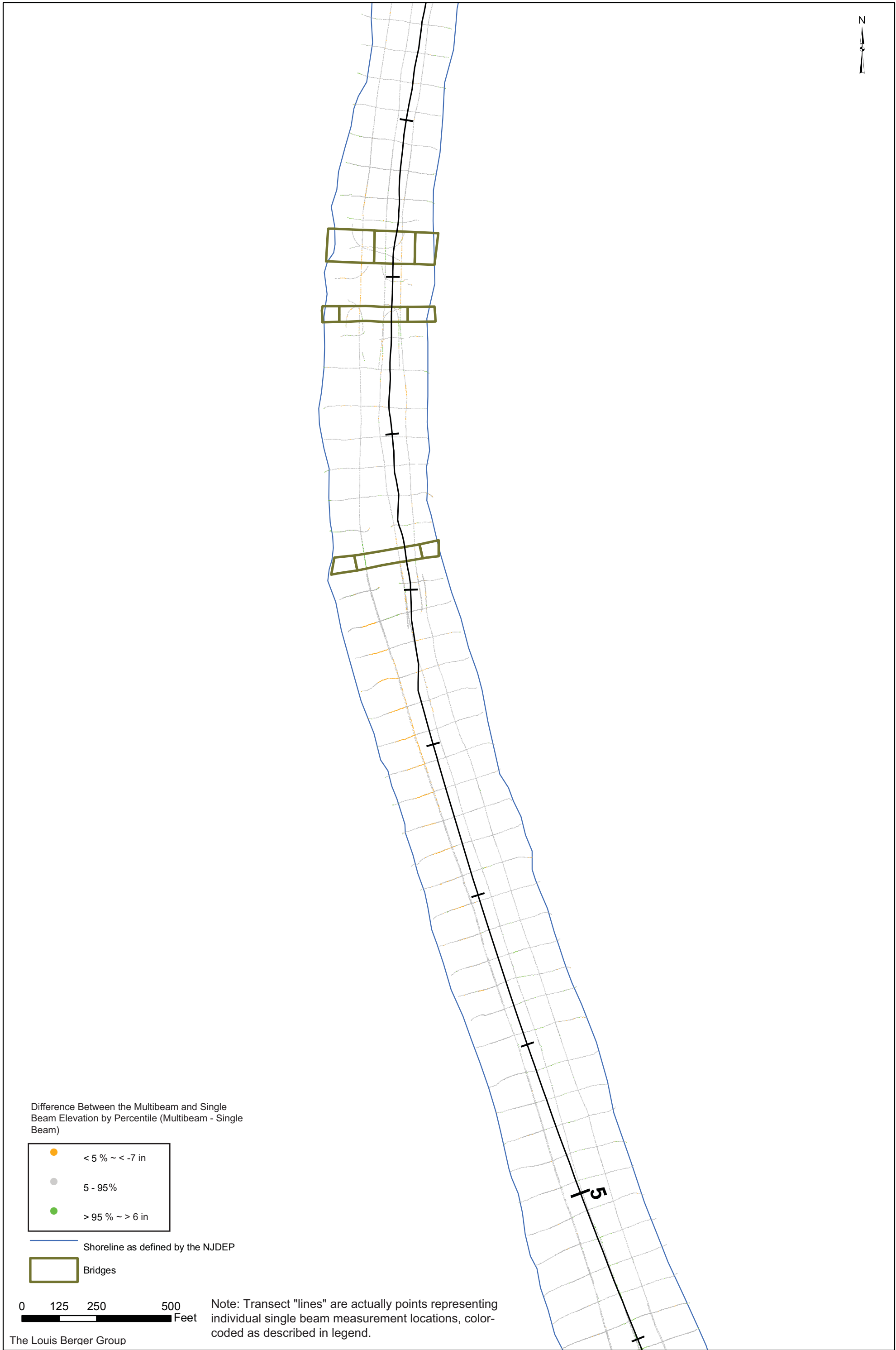


Comparison of the MultiBeam and Single Beam Surveys

Lower Passaic River Restoration Project

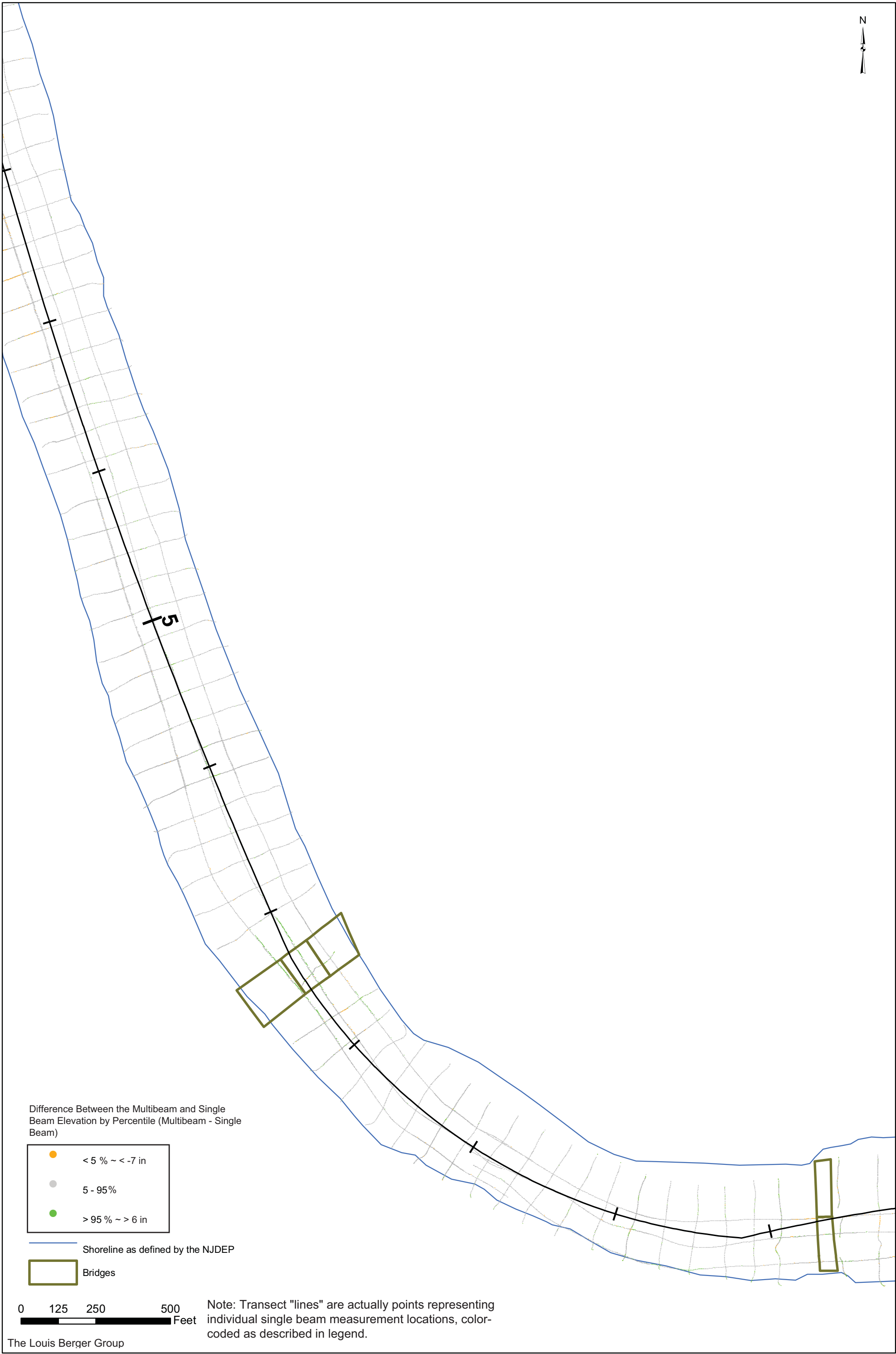
Figure 2d

March 2010



Comparison of the MultiBeam and Single Beam Surveys
Lower Passaic River Restoration Project

Figure 2e
March 2010

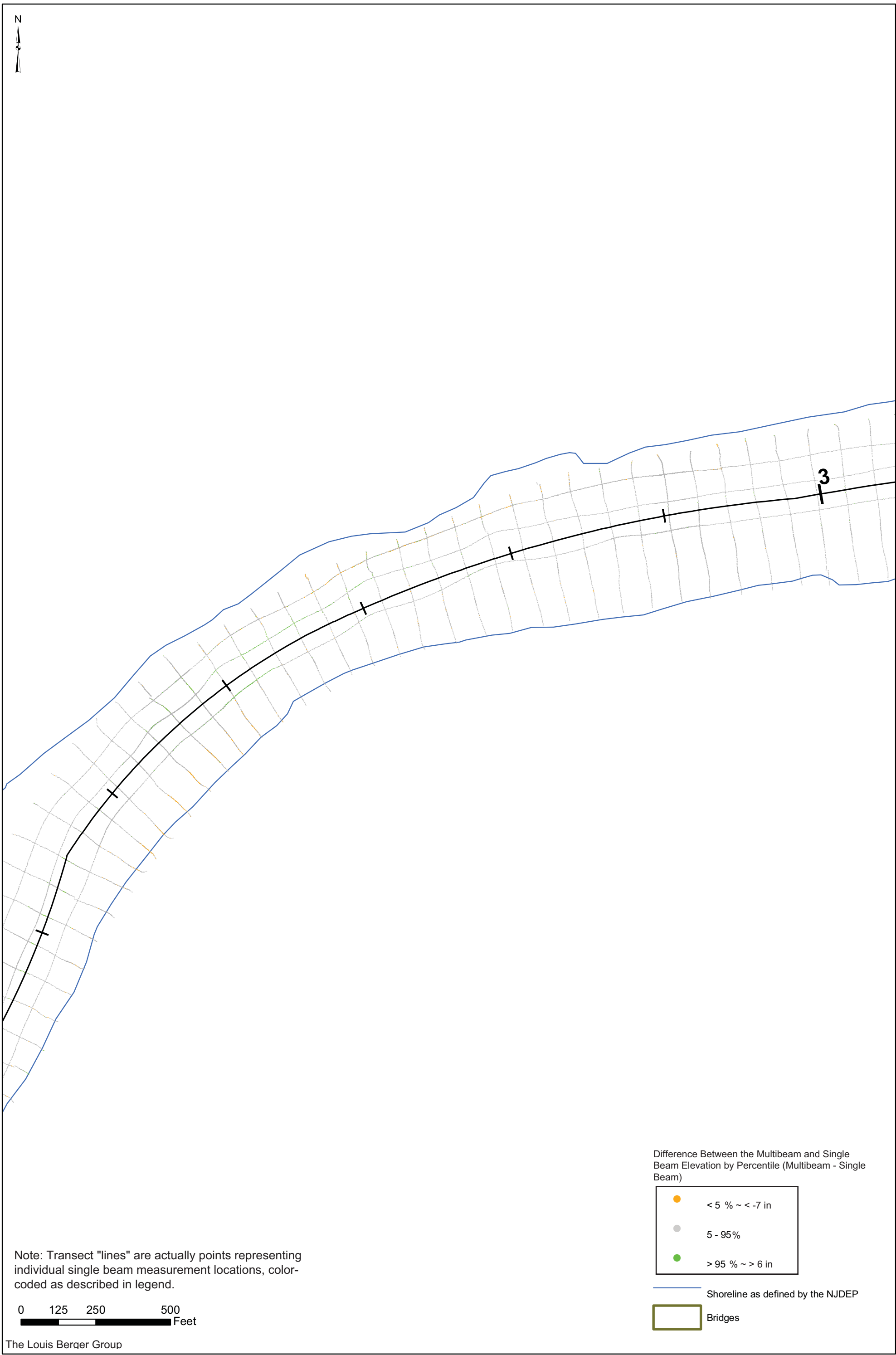


Comparison of the MultiBeam and Single Beam Surveys

Lower Passaic River Restoration Project

Figure 2f

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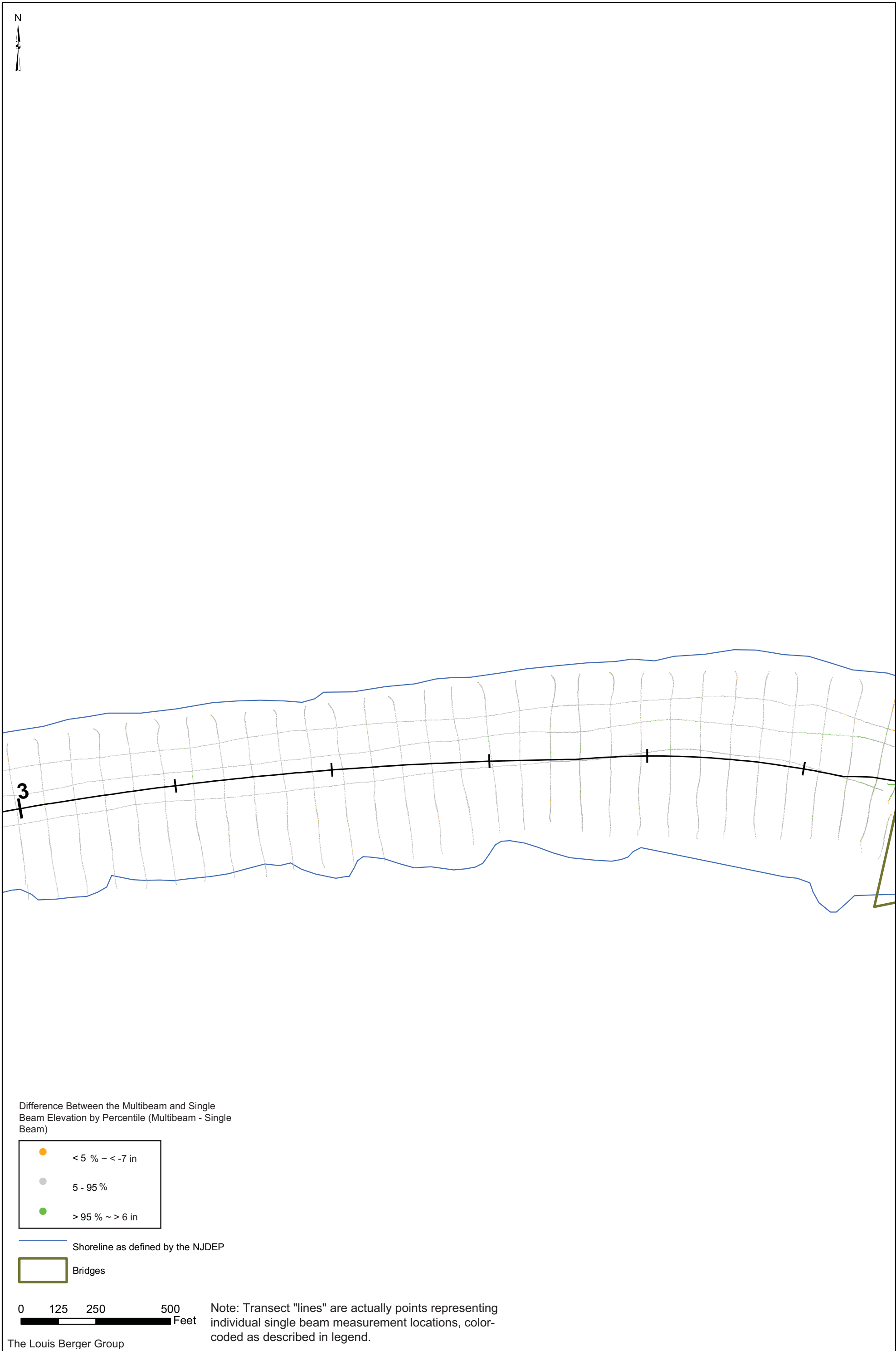


Comparison of the MultiBeam and Single Beam Surveys

Lower Passaic River Restoration Project

Figure 2i

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Comparison of the MultiBeam and Single Beam Surveys

Lower Passaic River Restoration Project

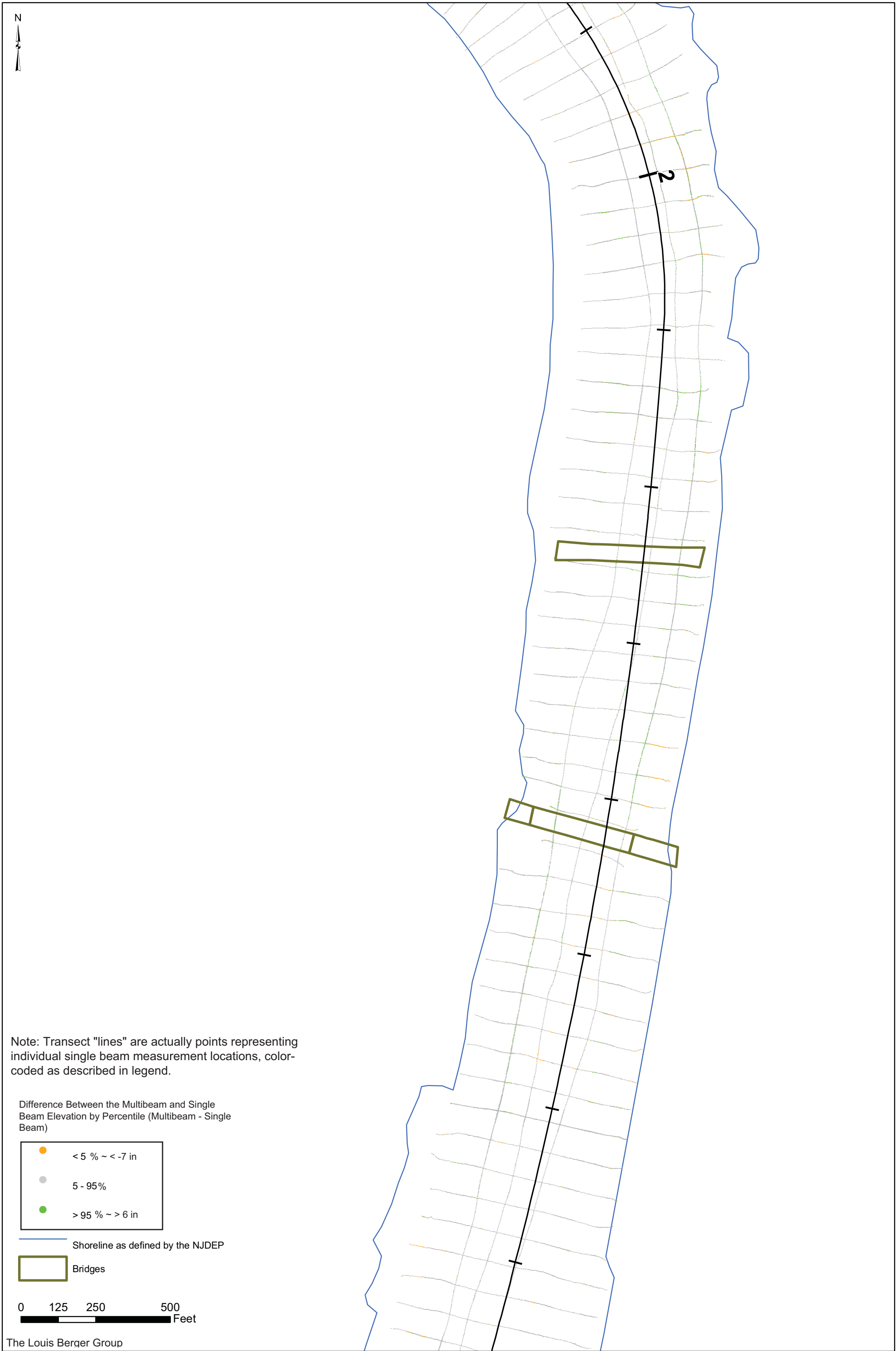
Figure 2j

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Comparison of the MultiBeam and Single Beam Surveys

Lower Passaic River Restoration Project



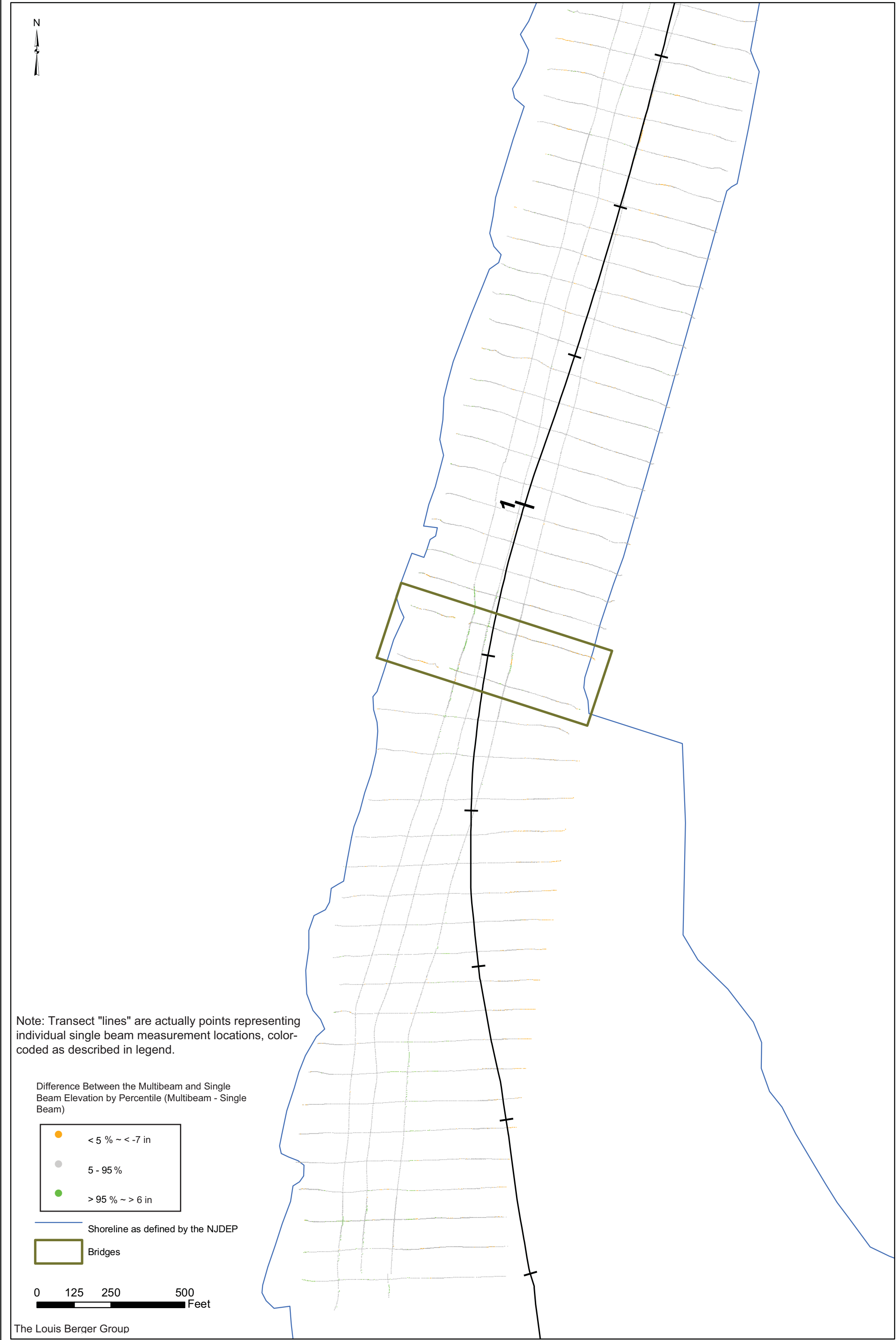
The Louis Berger Group

Comparison of the MultiBeam and Single Beam Surveys

Lower Passaic River Restoration Project

Figure 2I

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Comparison of the MultiBeam and Single Beam Surveys

Lower Passaic River Restoration Project

Figure 2m

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Figure 3a: Conditional Simulation Validation:
Difference between 2007 Actual Multibeam Surface
and Predicted 2007 Surface

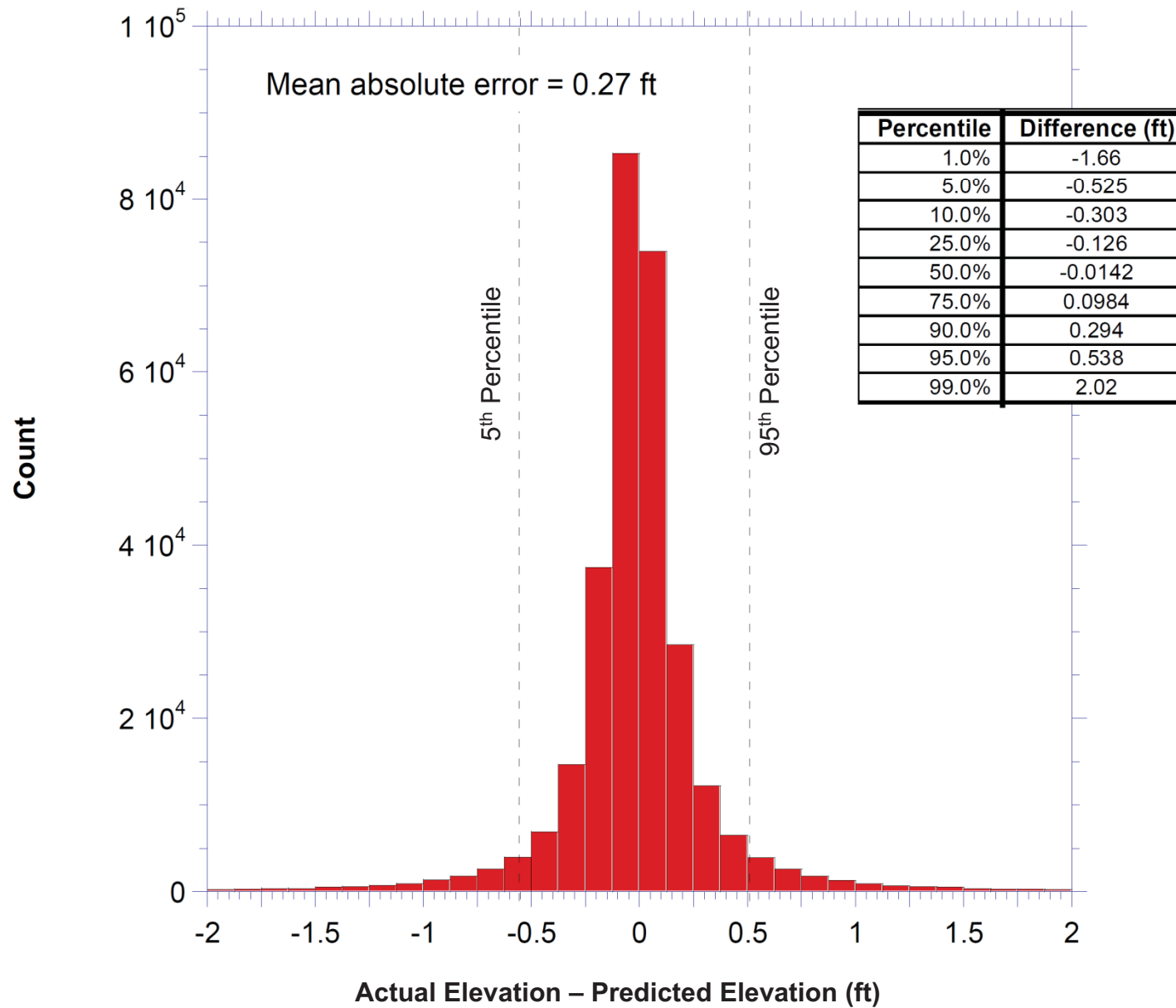


Figure 3b: Passaic Bathymetric Change Observations

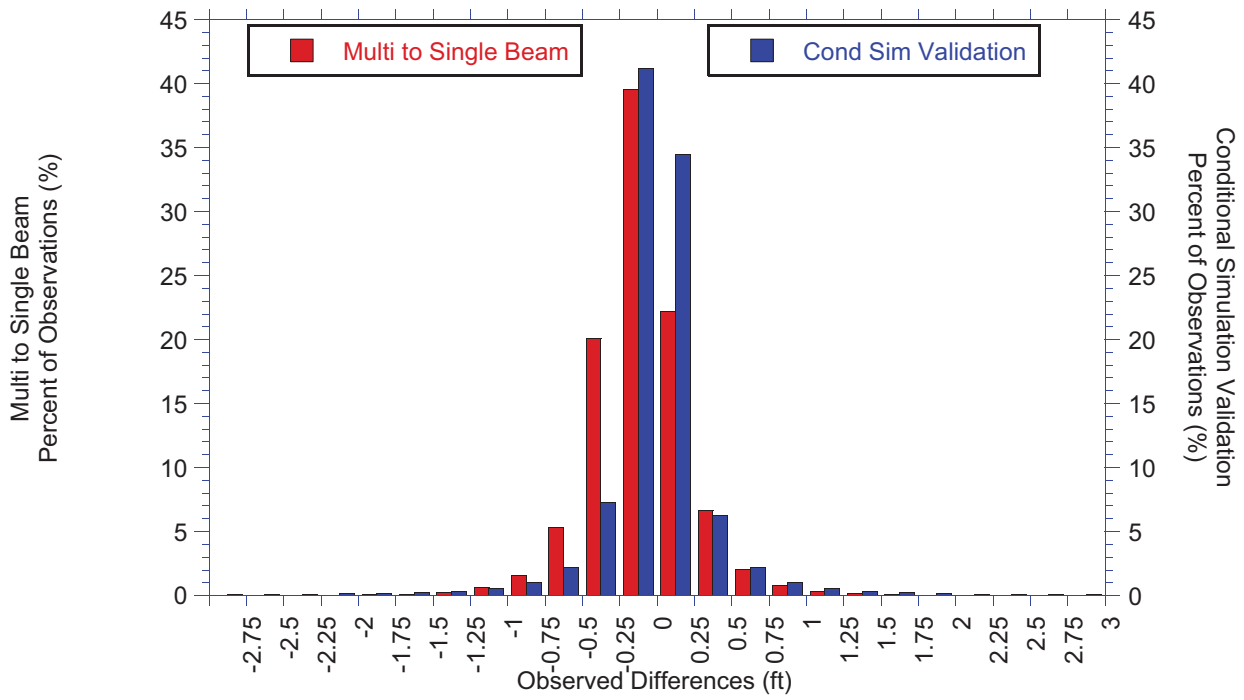


Figure 4: Conditional Simulation Validation False Positive rates

2007 Multibeam Surface Approximated by the 1995 Locations
via Conditional Simulation

Threshold	P(Erode>12-in)	P(Erode>6 in)	P(Erode>3 in)	P(Erode>0 in)
>31% probability	5%			
>50% probability	2.09%	5.23%	12%	49.7%
>62.5% Probability			5%	
>70% probability	1.178%	2.156%	3.367%	6.556%
>74% probability				5%